

REMARKS

In an Office Action dated August 5, 2002, the examiner asserted that restriction to one of the following inventions is required under 35 U.S.C. §121:

I. Claims 1 and 2, drawn to a method of screening agonists of GPR22 capable of being an appetite control agent;

II. Claims 1 and 2, drawn to a method of screening antagonists of GPR22 capable of being an appetite control agent;

III. Claims 3 and 5, drawn to a method of using an agonist of GPR22 as an appetite control agent;

IV. Claims 4 and 5, drawn to a method of using an antagonist of GPR22 as an appetite control agent;

V. Claim 6, drawn to an antisense oligonucleotide;

VI. Claims 7 and 9, drawn to a dominant negative mutant of GPR22;

VII. Claims 8 and 9, drawn to a dominant positive mutant of GPR22;

VIII. Claims 10 and 11, drawn to a transgenic non-human animal in GPR22 has been deleted;


IX. Claim 12, drawn to an antibody against GPR22.

Applicants hereby elect for initial prosecution on the merits the claims of Group II, i.e., claims 1 and 2, drawn to a method of screening antagonists of GPR22 capable of being an appetite control agent. Applicants specifically reserve the right to file one or more divisional applications directed to the subject matter of the non-elected claims.

The Office has noted that the present application fails to comply with the requirements of 37 C.F.R. §§ 1.821-1.825 because the sequences in Tables 1 and 2, pages 14-15, do not contain

proper references to SEQ ID Nos. In response to this objection and to the Notice to Comply with Sequence Requirements which accompanies the Office Action (response copy enclosed), Applicants have amended the specification to include proper reference to the SEQ ID Nos. already contained in the previously filed Sequence Listing.

The previously filed Sequence Listing was filed August 30, 2001 in response to a Notice to File Missing Parts mailed May 31, 2001, and included a computer readable form, paper copy and Statement under 37 C.F.R. §§ 1.821-1.825. This Sequence Listing lists all sequences disclosed in the specification, including the sequences in Tables 1 and 2. Applicants therefore submit that the present application now fully complies with the requirements under 37 C.F.R. §§ 1.821-1.825. Applicants request favorable consideration on the merits at this time.

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1991-196.AM1

Marked-Up Version of the Amended Specification

Pages 14-15, Table 1

Table 1

Human GPR22 cDNA sequence

Genbank accession number U66581

gttattttcttcaaaaggaaaacacaattttcttttatatcaaaacaatgcaaacttgatg
gttcttaattctacattttctattaatagtttacaaacttaaaaattaaactaagtacac
aattgaaagattttttttttcttacaagaacacgttatatacgtcatttaaattgccaaata
tcaaatagtttattctattttcactttctagggaaaaaaaccaactgctccaaaagaatgt
gtttttctcccattctggaaatcaacatgcagtctgaatctaacattacagtgcgagatg
acattgatgacatcaacaccaatatgtaccaaccactatcatatccgttaagctttcaag
tgtctctcaccggattttcttatgttagaaattgtgttgggacttggcagcaacctcactg
tattggtactttactgcatgaaatccaacttaactcaactctgtcagtaacattattacaa
tgaatcttcatgtacttgatgtaataatttgtgtgggatgtattcctctaactatagtta
tccttctgctttcactggagagtaacactgctctcatttgctgtttccatgaggcttggtg
tatcttttgcaagtgtctcaacagcaatcaacgtttttgctatcactttggacagatatg
acatctctgtaaaacctgcaaaccgaattctgacaatgggcagagctgtaatgttaatga
tatccatttggaattttttttttctctttcctgattcctttttattgaggtaaattttt
tcagtcttcaaagtggaaataacctgggaaaacaagacacttttatgtgtcagtacaaatg
aatactacactgaactgggaatgtattatcacctgttagtacagatcccaatattctttt
tcactgttgtagtaatgttaatcacatacaccaaaataacttcaggctcttaatatctgaa
taggcacaagattttcaacagggcagaagaagaaagcaagaaagaaaaagacaattttctc
taaccacacaacatgaggctacagacatgtcacaaagcagtgggtgggagaaatgtagtct
ttgggtgaagaacttcagtttctgtaataattgccctccggcgagctgtgaaacgacacc
gtgaacgacgagaaagacaaaagagagtcttcaggatgtctttattgattattttctacat
ttcttctctgctggacaccaattttctgttttaataaccaccatttttatgtttaggcccaa
gtgaccttttagtaaaattaagattgtgttttttagtcatggcttatggaacaactatat
ttcaccctctattatatgcattcactagacaaaaatttcaaaaggctcttgaaaagtaaaa
tgaaaaagcgagttgtttctatagtagaagctgatccctgcctaataatgctgtaatac
acaactcttgatagatcccaaaagaaacaaaaaaattacctttgaagatagtgaataa
gagaaaaacgttttagtgcctcaggttgtcacagactagagaaaagtctcagtttcaccaa

atccacattcaaagaggttttaaatttaaattgtaaaaactgatattactgccaaatata
agaaaaatattttaagtattgggttatggttgtaaattttcaatgtgaaatgctaattagat
aggatcatatatattcaattttcttcattacttaatgtatttggtgcatggcagtttggttaa
agtactatcatgtgtatattttgtcaatattatgtccaacagaaaatattcatgtaagtc
atatttttttaaggaataaatacatagccttaaaacagtggtataacttttaaagtgtaaaa
aaaaaaaaaaaaaaaaaaaaaa (SEQ ID NO:1)

Page 15, Table 2

Table 2

Human GPR22 amino acid sequence
EMBL accession number Q99680

MCFSPILEINMQSESNITVRDDIDDINTNMYQPLSYPLSFQVSLTGFLMLEIVLGLGSNLTVL
VLYCMKSNLINSVSNIITMNLHVLDVVICVGCIPLTIVILLLSLESNTALICCFHEACVSFAS
VSTAINVFAITLDRYDISVKPANRILTMGRAVLMISIWIFSFFSFLIPFIEVNFFSLQSGNT
WENKTLLCVSTNEYYTELGMYHLLVQIPIFFFTVVVMLITYTKILQALNIRIGTRFSTGQKK
KARKKKTISLTTQHEATDMSQSSGGRNVVFGVRTSVSVIIALRRAVKRRHRERRERQKRVFRMS
LLIISTFLLCWTPISVLNNTTILCLGPSDLLVKLRCLFLVMAYGTTIFHPLLYAFTRQKFQKVL
KSKMKKRVSIVEADPLPNNNAVIHNSWIDPKRNKKITFEDSEIREKRLVPQVVTD

(SEQ ID NO:2)